

[New Seed-Spring Wheat. In this Western peninsula of Canada,
spring wheat has not been as profitable to farmers for a namber of years as the winter varieties. In the northern and eastern parfs.
ontario it has been raised with more profit. We have procured and tried every variety
we could hear of, and sometimes even tried We could hear of, and sometimes even tried apring wheat. The results in the last named trials have always been failures. The old China wheat, although tough to thresh, used
to yield us remunerative returns, but for to yield us remuneratise returns, but only
many years has been discare, as it only
proved a dead loss to those that persistantly attempted to grow it. The time may again set bearded head, mayy come into'profitable cultivation. The Siberian superseded it; it
lasted but a fow years. The Rio-Grand or lastod but a few years.
MoCarling on Red River wheats, as they were called, succeeded also for a time, the Club, Morden and
nearly run their course; the Scotch Fife or
隹 Glasgow wheat, which has had a general
cultivation, has shown strong symptoms of degenerating. The mind's eye of the progres
sive farmer is looking forth for a variety that may again prove profitable. We do not
pretend to say but many of the above named varietien aredoing agood servicein some place
particularly in localities where wheat has not been much cultivated. In many old sections, Where wheat has been continualy cultivated doned, and so much has been losthysome of then already that many if one would give the geed and guarantee \$4 per bushel for the crop.
The spring wheat that appears to have given most general satisfaction this year, has been wheat.
This and extent in some parts ol rates; we have tried this wheat and seen some very good fields of it raised. For general cultivation, where it is
known and can be procured, we believe, it will be preferred t.
named varieties.
There will be two new varieties introduced this spring; or at least new to us, and most probably to all our readers; one of these, the Egyptian wheat, a peculiar variety,
having very small heads growing from the having very smanheat is white. We under-
main head; the wheat
stand its greatest fault is its liability to rust; maind its greatest fault is its liability to rust;
sthe other is termed the Redfern wheat. This
this the other is termed the of the grain from as
is the report we hear of
reliable a source as we could wish. The is the repor source as we could wish. The
reliable a
head is long heary, and bearded; the grains are short and thick, and rather wide set on
the head. This variety was found growing by a person whose name it bears, seven years ago. He carefully sowed the head. Hed bet-
continued raising it, manding it answered
ter than any other variety. It has in some continued raising it, variety. It has in some
ter than any other varien
instances yielded donble the crop the Fife instances yielded donble the cr'sp the
did in the same field; the quality of the flour is unsurpassed. It, has been grown on stiff
clay and on loamy and black soil; in the last
mentioned instance it grew $4 \frac{1}{2}$ feet high, and

LONDON, ONT., DECEMBER, 1874.

stoon weli up without lodging or rusting.
The greasing at the present time faster than ever
The great desideratum in this wheat is
before.
The increase of circust
 and quality of flour is unsur passed.
are the these
and are the acconnts we have of it; there is, asy
yet, but a limited quantity in the country.

Clawson Wheat.


To Our Subscribers.
 one of you our thanks for your aid in
enabling us to make greater preparations for imp roveme.t for the incoming year. We believe we have filled our engage-
ments with you in the past. 1 In rearad to mext werr's paner, we feel confidont that
next will be better pleased with its appear
oun you will be better pleased with its appear-
anne. A handsome cover will be placed on eaco. A Aper, and we trust better matter will
fill its pagas. fill the pares.
The ciration has increased during the
pear from 6,800 to 9,975 , and is in
creasing at the present time faster than ever
before. The increase of cirrultation enables
pus us to improve. We hope to have such an
agrioultural paper in Canada that will be at
and least equal, if not superior to any agrioul.
tural paper printed on the Globe. We now
 things and polagnt as beore have thounghte advantageons to you; wo have exposed and con-
demned such things and acts as we have
 kepping true to our standard the Frarners
Advocate- and ask your aid in upholding it. Our Chromo - The Little Wanderer.
When we were in England, we examine a great many pictures, with a view of mak.


turn we found on this continent a chromo
lithograph of a portion of the same subject,


 atemt with an entraving, to give any idea
at the beantiul coloring and finish. The sub. ject is acaod one, pleasing to old and young,
and can offend no one.

 is 20016 inches, to allow for a proper mar.
gin of white at the sides, which hlould in all anes be show. We yuarantee every
one satisfaction that procures one of them. One of the best artists in canada says the

picture is worth $\$ 2.00$. See prospectus Ioe | picture is worth 82. |
| :--- |
| 1875 on page |
| 190 . |

Agents Wanted.
in newirity to perory Coune araaly in good activo anemt In nearly every County in Cande, to obbtain
 Che paper before the farmerr,and dhow the ad.
vantages of taking it Wo will either pay a salary or allow a very.


 gons will reeive the frat ohanoei: eend for
specimen copies and terms to agonte. Colorado Potatoes.
Although the Colorado potato bug has
been so destructive to the orop with ue, it has done but little damage in Colorado. 1 It if generally admitted that tho bugg mero irrat disoovered there in the low and fint
lands, but the high lands are, and have beom, entirely free from thair ravaso, and tho po-
tato is the leading orop raised there. armer near Denver, thin year raised 30,000
ashels. $W_{0}$ notice this in one of our ox.

## Prize Essay.

A prize will be given for the best emanay on Kisaay to be in this offico by the 10t. of


## Handling Butter in thr Irish











One of the Russian papers has a corree. pondences descriptive of a queer element on
or Western population. They are Ruasiana
 who, having made their way to the eostern
coast of Asia, have got over Behring Straita on American whalery and are now emploged
as herdsmen on the plaing.

THE FARNER'S ADVOCATE
©0rtesqumbence.
the result of a deficiency of rain. And it may
be concluded that even heavy soils, if badyly
farmed, will.generally yield only, or under, an
average The Te The Telegraph, at St John's N. B., in an
teresting description of that province, gives mull details of the quarries and plaster mills
full
in Hillsborough. In Nova Scotia and New in Hillsborough. In Nova known deposits of Brunswick are
gypsum sitable for caleining on the Atlantic
coast. In Virginia, and New York are
Nan tound small formations of brown, earthy
gysum without marked value in itself, and gypsum without marke ret that even with an
so remote in the interior
additional charge of two or three dollars per additional charge of two or three dollars per
ton, provincial plaster would be the cheapton, provincial plaster would be the cheap
est. These were shipped from Nova Sootia
to est. These were shipped Seaboard, manu-
to the American Atlantic Seat
factured in 1870 about 148,000 tons of rock aactured in 1870 about 148,000 tons of roc
plaster, valued at $\$ 148,000$. This rock plaster, valued at manfactured, possessed a
plasture when
value and

$$
\begin{aligned}
& \text { value at learto of } \$ 900,000 \text {. The mills at Huss- } \\
& \text { vororogh are actually employedinits manufac- } \\
& \text { tore but its financial prosperity is impover }
\end{aligned}
$$

$$
\begin{aligned}
& \text { borough are actually employed in its manutac } \\
& \text { ture, but its financial prosperity is impor } \\
& \text { ished by the duty levied on it, when manu }
\end{aligned}
$$ ture, but the duty levied on it, when manu

ished by factured in the
principal market is.

$$
\begin{aligned}
& \text { Two RoPs } \\
& \text { The Orilla Packetstates, that A. Mc Donald, } \\
& \text { of that town, showed the tirst new potatoes lat- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ter part off june, } 45 \text { days after planting. } \\
& \text { the first of July he planted Earry Rose potas }
\end{aligned}
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\begin{aligned}
& \text { the first of Jula of op those raised, and has had } \\
& \text { toes in the place }
\end{aligned}
$$

$$
\begin{aligned}
& \text { toes in the prop of good fine potatoes. } \\
& \text { a seond }
\end{aligned}
$$

$$
\begin{aligned}
& \text { LARGE BRAHMA cock. } \\
& \text { inglish poultry breeder is informed, } \\
& \text { Brahma cock is on Exhibition the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { An English poultry breeder } \\
& \text { that a Brama crabe cock is on Exhition the } \\
& \text { present season in that country, which }
\end{aligned}
$$ present season in pounds. One party

weighs over twenty por
claims forhim the enormous weight of twenty

## two pounds.

The following table shows the number swine of all ages in the States named, as re
ported by the Department of Agriculture

## Washing States.

Tennessee.
Vest Virgin
West Vir
Kentucky
Ohio....
Michigan
Indiana.....
Illinois....
Wisconsin.
Wisconsin.
Minnesota..
Iowa.....
1owa.....
Missouri.
Kansas. .
Kansas...
Nebraska.
Nebraska.
California.
Cregon....
Total.
Total.
Decrease.
Prairie
......

The Texas cattle disease still exists a
Stafford Springs, Conn. One yoke of oxen Stafford Springs, Conn. One yoke of oxen,
belonging to the Westmore Lumber Com pany, have been slaughtered by Professo
CCessy, of the Massachusetts Agricultura College, andex-Governor Hydewho have gon to make an examination. The state commissioners have examinelonging to the Dimock ed heathers, and pronounced, them healthy Broters, ainder of the herd will be butchered
The remainder
under the direct supervision of Commissioner under the direct supervision orich the disease
Hyde. The ease whith whited iscommunicated isected by a yoke of oxen
one herd was infer
used to switch off a car containing some disused to switch of
eascl animals.- E,

The drain of animals from Canada into the
United States has been very large of late
United States has been very large of late years. If cact, the consilerable extent upon the
to a cery cor
Province of Ontario for their supply of ani-
Provnce.
mal food.
Since Confederation took place, the value
of our exports coming under the heal o "Animas and their Products" has more than
"Aonbled. This will be seen at a glance by
dod doubled. This will be seen at a glance
reference to the returns, which are as fo
chased a
from the
follows:
greater than those classed as agriculturaa
grains. There is very little difference now,
and that is likely soon to disappear as our
own new ww new lands begin to deterion ate for graintaising. The
rom all parts of
was as follows:

|  | Number. | Value. |
| :---: | :---: | :---: |
| Horses | ... 8,782 | \$922,233 |
| Cattle | 25,638 | -603,531 |
| ine | 315, 832 | 957,721 |
| Poultry |  | 942 |

These figures indicate quite an exodus of
ve stock, but there appears to be no scarci ty, and if the proposed Reciprocity Treaty bestill greater. During 1873, we also pur-


These imports are not large, but they
arger than we snpposed they would be.
increasing trade in frutt. On Saturday last some seven cars were
loaded with apples at this station alone, and on Monday and Tuesday there must have
been fully as many each day. The total exbeen fully as many each day. The tosal wil
port of apples from Galt this season wil
reach 2,500 barrels. Mr. Bourcher alone shipped 1,500 barrels. These figures show that the trade in this
section of the country

## P. e. Island prosperous. ing to our private advice

According to ourpince never was in a more
E. Ispand, the prover prosperous condition than it is at present.
Though a wet spring made cropping late, the Though as one of the best secured for many
hearrest is
years, and the weather for saving it has hearvest is the weather for saving it has
years, and the
been most propitious. Even ungrateful man could desire nothing better. The wheat
crop is better than it has been for many
years; it is believed that the yield will be double that of any season since the midge made understood that the import of flour into
ine Island next year will be reduced by at the Island next year whirty thousand barrels.
lease twentry-ive or thirs and
Barloy and oats ane average, if no mure. Turnips and potataes, too, are excel-
ment. The mackeral fishing is fuly double
lent of any former year. To cure the enor
that lent. The mackeral tishing is fure the enor
that of any former year. To cure
mous catch, barrels had to be imported from that of any farmeres had to be imported from
moos catch, barre the United States Ship-
Nova Scotia and the
building has been prosecuted with vigor, and Nova Scotia and the United stath vigor, and
building has been prosecuted with
we trust will prove remuerative. Trade we trally is not counted very brisk, and yet
general be good, if we judge from the large
it may increase in the revenue. The Islancers
have abundant cause to be thankful and we are sure they never werein a better posi-
tion to face the coming winter.-St Jolin
Telegraph.
Mr. Henlock Young, of Guelph township, has given the Guelph Mercury two apples blossom grew right from the hollow near the
stalk, and was well formed when the apple stalk, and was well ormed contains near the
was plucked. The other
stalk an excresence like a small apple, and from that also grew a blossom, which came
out into full flower. Both apples were full formed. This freak of nature is, to say tha

## "Sharp Practice."

heading a correspondent of the Conutrin
Ocentleman describes several tricks usual in buying hops. One of these is for a buyer to purchase the crop of an old grower, nomin-
ally at a price several cents under the real
market market price, but with a "pift" of money
enough to make the full price the bill of sale showing the low price. With this bil
of sale the buyer induces. oher growers t of sale the buyer induces other growers
sell at the price named in it on learning
of the trick from the first seller, one of the
 like to kick that agent." This is a very
natural feeling, but we cannot see why it
should be directed against the buyer alone
The party who sold nhauld be directed against the buyer alone.
shoue party who sold the hops was equally
The being that the
guilty-the main difterence bein
buyer was deceiving strangers, while the the
seller was deceiving and wronging his neigh-
sine,-As yon wished to know leat spring, when advertising the above named port sec-
what the result would be from differeft tions of
ing:-
I rece wenty eyes. I made twenty sets, put them in a noderately rich loamy soil. They had growth and early maturity, but for length
nd strength of stocks they resembled the and strength of stocks they resembled the
Garnet Chillis.
When dug there were one largest weighed almost a pound each. The yield was decidedly beyond anything I have
had in the past and anythis had in the past and anything heard a few for the
section.
table, and we found them quite satisfactory. The Japan Peas you sent never came up. Bear Brook, Oct. 31, 1874.

## rrom British Columbia.

new serd wheat.
STR,- With this mail I send to you a small ear; also, a sprall quantity of fall wheat. The weather here is very cool in summer

mpared with that of Canada, the hottest | yy this summer being 85 in the shade; the |
| :--- |
| veather is very mild now. We have ha | ne light frost, not hard enough to freeze balsam flowers. тноs.

[Our British Columbia correspondent will ccept our thanks for the information he are much finer than the grain srown by s; the heads are large and wrell illiled. . In
ne of the heads we find the wheat is set ou of the heads we find the wheat is set
our grins in a row, the majority being
reee; our grains generally go about two, and sometimes three. We have placed the Wheat in the hands of the following gentieBruce, London Township W. Blyn and ${ }^{\text {G. }}$.
Jarvis, Westminster. Thus it will be trid on different kinds of soils. We shali be
pleased to hear more accounts from British
Columbia correspondents in regard to that Cleased to corresp
Country. - ED.]
the farmer and the railway, SiR,- As Mr. Sutherland was driving a
pan of horses across the G. W. R. R. track on Saturday evening last, the engine struck
the horses and wagon, killing the horses and smashing the wagon to atoms; the driver
was thrown 65 feet from the spot, and most robably will die. Mr. S. was a steady,
ober man, and touk as much precaution as y other person would.
Now, sir, I wish you to publish this, as
ou claim to be the farmers advocate, and I
促 wn grounds without any just reason.have met with nany narrow escapes from hink 1 ought to have a right to travel the losing my life.
Ic hope you may bring this lefore the pub-
huch a way as to give us greater safety.
C. R., Dorchester. TWe are well aware that farmers' lives are eve that not one-tenth of the loss of life is nale known beyond the locality where it ings. Even the Patrons of Husbandry night properly debate on this subject. We rotection for farmers, at the expense of
righer charge for. passengers, as it is the apil passenger trains that send the farmers
their long home. We, as farmers, have ot their long home. We, as farmers, have
ight to the highway. The railway is an inight to the nig rights; it is their duty to give
truder on our
is safe crossings. Guards or gates should
Guins. and sate crossing. angerous place. In Eng-
be kept at every dand
and the crossings are ey means of bridges. In France the protection from danger is
effected by guards at each crossing. -ED.]
very large; but that on a certain but u
known proportion of these it will be considerably reduced by "blight." On grave
and very light lands a deficient crop will b

## THE FARMFR'S ADVOCATE:

AGRICULTURAL EXBHBTITONS.
SIR, - feel a very great interest in the
welfare of the ADvocATE, and would like to send you a few lines from the eastern out
skirts of our province; but I feel something
like like the old Scotch woman that went along
with the regiment to fight with the regiment to fight, broomstick in
hand - "not that I can do only guide, but to let ye ken what side I'm on.
I want in the first place to corroborate the
statement of J. W. Smith, regarding the
crops around Otto. statement of J. W. Smith, regarding the
crops around Ottawa. It is a very fair and
correct account. Crops are by no means failure, altho
tremely
dry. tremely dry.
Ia so want
ship Societies, and II am an g pleased with th side you take in the matter. We have kep
up a Society in this township for sever years with spirit than success s, although we get but little aid from Government, and
can safely say that our annual Exhibition
would be no
 much good, if not more, than the equally a
cities. There is one thing that I would ike to get some information on -whether it would be best to give up judging field crops
altogether, and have samples brought to the Exhibition instead? Some think it would, as there is so much expense and dissatisfaction in sending judges around. Perhaps you
or some of your readers could give some information on this point.
We expect to have a great time down here
next fall at the Provincial Exhibition. next fall at the Provincial Exhibition. know how we will find you out in the crow Could you not wear some kind of a badge, let us know through the Advocate.
R. A. Roe, Clarence, [In regard to the examination of growing
crops, we hope some of our rem take up the subject and send in an article against the practice. We wish to have such
subjects discussed. The plan is not in this vicinity. Our opinion is that it is a good plan, but judges should be selected who would look on their task as an honor, and menses of a vehicle to take them to the ifferent places, and their dinners. We hope at Ottawa next year. If all is well we intend being there. Perhaps we may wear a fool's cap or some other conspicuous mark, of our sat of a different pattern than half other. Perhaps you may see us too soon too often and too long. -ED].
INQUIRy.

SIR,-1 have a valuable horse which has burst. If you or some of your correspond-
tents would please give some remedy throw the columns of your paper, I would be very much obliged. I suppose the sooner it
remedied the better. description what the lump may be or fuller probably it is a rupture; in that case it skilled person should be employed, other
wise you may lose the animal wise you may lose the animal.
Veterinary Surgeon, London].
SIR, -Please inform me through your pa-
per if a thorough-bred Berkshire pig is
entirely black. D. B., Richmond Hill.

The old Berkshire hog was a mixed-colore
Wimal. We have never yet seen an in ported Berkshire without white hairs. -En an

 he first about four inches from th the ground, tee first about four inches from the ground,
second six inches, third ten inches, fourth fifteen
inches, the fifth to be a 2 by 4 scantling piked
on top of the posts. A set of spring wire
 be $p$
wire
mere.
quire
wind
 Neither horses or cat cattle cans no throw it drifts.
In the first place it costs less to build ow h
kind of fence this
much less to than any other; second place much lessen ce than any on roper; second place
muapir, We will no
sum the cost material required; say 25 rod
will take 66 posts, at 9 cents


 limb
wort
more
$\$ 3$ mores,
$\$ 3.00$ in
making
thme up
of wire mane up, a
tho wire fen
Fern Hill. $\qquad$
What Shall be Our Grain Crop in Even now, in the early winter look forward to the spring labor, and the is pretty sure to be forehand before him is pretty sure to be forehanded with his
labor. The provident his mind, every field in his has mapped in
the quality of its soil, natural the quality of its soil, natural and improved with
and has designed the crop for and has designed the crop for every part o
his farm. He knows that there is a nee sty for a variation of crops, and that the sill after a time becomes wheat-sick, or po-
tato-sick or even clover-sick; we use the term sickness of the soil, as one not unfrequently used, and as expressing very plainly what
those conversant with the soil times too well. He learns that his turnips do not yield as heavy a crop as they did some years ago; and as a remedy for light cultivates mangolds or beets instead props, and his grain crops also he finds it profitable betimes to make a change.
There is, besides, someth
knowledge of agriculture, necessary in ord that the cultivation of the soils may be be fairly
remunerative. remunerative. A judicious political economy of the Legislature is necessary to the pros-
verity of the nation, and in like manner must we farmers pursue a'wise financial policy.
Our fields may produce abundant in fields may produce abundant crops, but
if we cannot dispose of our surplus produce
at a fair paying price, what will the fertility at a fair paying price, what will the produce
fertility
our soil profit us? Of this the farmers of our soil profit us? Of this the farmers
in the Western States have had ample pron when corn only brought them in a return of went cents per bushel.
With us Canal ways been the staple product, wheat has alpretty fair produce, at least a better average hod our neighbors, and we have had a spare. Our wheat brought the English could sovereigns, or their equivalent, to our cash-
box. So far, well; but let us consider if grow, or if other grain may not be substito ted, in part, for wheat, to our greater profit. First, let us enquire the yield of wheat and
of barley. We take the report of the G of barley. We take the report of the G.T.
R. R., for the average yield throughout
the country. We should have had reports from the Department of Agriculture
but great bodies move slow average yield has been, as show- of ban ley the
as in last issue, from 25 to 40 bushels per acre, -say average of about $32 \frac{1}{2}$ bushels; of wheat the he yield of bushels of 10 in favor of barley, Were the same price paid for both, barley
would, from the returns given, be the would, from the returns given, be the most
profitable; but barley also commands the
highest price. In this mark highest price. In this market the highest
price for wheat is $\$ 1.60$ per 100 lbs., and for barley $\$ 2.15$. But as the yield 100 los., and for of barley has been given in bushels, and the
bushel bushel of wheat is the heavier, let us enquire wheatis reported as sold from 93 cents toronto, per bushel, barley from \$1.12 to l.13. In Chic go the Prairie Farmer says that wheat sold
tor cash from $77 \frac{1}{2}$ to 86 a cents per bushel, and
barley from 90 cents to $\$ 1.20$
then is the average yield of barley much also higher; and there is a good demand fo in ley not only in the home market, bu
in the United States as well, where Cana dian barley is much sought after for malt-
ing. ing.
We d
and not and not wheat, but we advise you to onside wheat and more barley - todepend less on on
variety variety of grain. Were the high price of bar
ley merely adventitious, it would be unwise
to change our crest to change our crops in consequence, but
the demand for barley has been increas.
ing ing for some time; there has been an increase
ing consumption of malting barley in Eng and, with an increasing advance in its price compared with wheat. This is fully shown by
the reports from the English markets. Malt-
ing barley formally was sold in ing barley formally was sold in England for few last two years it has been within
rice.

## December on the Farm.

In this month we have the shortest days
the year, and then the indications of coming year in the lengthening days. In
our Canadian climate there is not the same
 labor that we experience at other times, and
the shorter days are well designed for the relaxation in our labors. At other seasons
he necessity of making the most of every hour is such that making the most have been every ing every nerve for months need for a little
time the unstringing of the bow. But December, though a time of less
one of idleness for the farmer.
Care of Stock. - No little of our labor paration for the winter care of stock, and in reparation, will our labors now be the wire good feeding and careful attention. Keep up their condition at all attention. needed food and warmth. This, on r advice season throughout the winter and the stock condition than easier fed and kept in good Elected. The stables that have been ne properly ventilated. An animal, though ties, cannot thrive without the the necessary
warmth; and with that needed comp hent a less quantity of food is necessary. Food is needed not only to support the body, wasting of its substance, and to add to it eight; it also is the source supplying the
eat necessary for the continuance of anim life. Cattle not having sufficient
need the more a greater quantity o supply this want, and quantity of food foul is thereby wasted. In providing for their proper ventilation; without it the must be injurious to the
doing of their occupants.
The cutting and hauling of wood, with the and repairing of harness are the work o
December on the Farm. season of real enjoyment. The social plea-
sores of the long winter evenings are redished by all.
This is the
counts. Let not the make up year come the till yo have known how far the farm has for the the
last one been profitable, and examine the last one been profitable, and examine the
expense of each crop and its value. Every
farmer should be able to say what profits are to be realized from a field of wheat, or oats
or barley; and how much a bushel of ot or or or turnips may cost a bushel of potaexpenses are deducted.
The Garden. -Of
say it sleeps, , but we the garden we may mo r may
pleasant awakening. Securely a bright and peasant a wakening. Securely covered with await the enlivening breath of spring. For the more that the winter is abroad. Light, moderate heat and watering are the requiregarden. The window for the flowers should, when possible, have a southern or an eastern
aspect. Let them have all the light that is as necessary as heat. Let the heat be moderate, less during the night than the
day, Let the plants have fresh air when-

## 

$$
\begin{aligned}
& \text { nut be brought by the ins in the thidual rift } \\
& \text { it, who is often ob }
\end{aligned}
$$

 shoulder have a bountiful, supply, of ate
themsel strippings obtained winter restricted to
from the Summer The and careruluses are kept in comfortable The fattening cattle, sheep and hog
carefully cared for but the cow which
pected to furnish an import an petted to furnish an important nourish and the basis of many delicacies so
is too often left to shift as best she
is no wonder that she doles out small an
mil.
There
farm that mil.
There
fart th
bower f
cow.
demand demand is a machine that too often perfectness of construction proportion to towed on its working parts. If warmly you
nd fed liberally with plenty of rich food clouding, if possible, succulant vegetable have
If
prov provid
stop
abound
largely
lat buranance of water taken by drink the but also to the quantity, quantity of of
animal to assimulate the products of
more fully than it otherwise could. By this we do not mean that the
plied with diversified food and plenty anil giving ten to fifteen quarts pe
milk, will give milk as rich, quart for
the animal fed on rich dry sufficiency of waterich to en y fooled it, to to b
through the animal. In this last case
mall quantity obtained will neh; but an animal properly kept, and
flow of milk, will be found to furnish
gents of milk very much in poorly cared for, however richly fed.
The lack of milk in

## crying evil the farmers abundance.

 he farmers learn how easy it is toabundance. and that that daily care b
is not onerous, thereafter but little will be experienced by the touter cite difficult if circumstances were such that the farm needed can be realized, Generally if no better pare and feeding to
couple of the later household along till the new cows begin to com events. those farmer part of who wave ter. At at already
provided for an abundance of mill this winter
could immediately do so. Plenty of mill the cost, and still have wary s ample pay all Michigan Farmer.
a prosperous texan.
In Southwestern Texas, there is a cattle
raise who has lived there twenty years. On going there he piveced up a a dozen years. cows, and
branded them. He had no land, but was the
bit branded them. He had no land, but was the
possessor of a wife, two or three children, and
a few dogs and two or three horses. He kept
$\qquad$ cows and lived
gamers, sustatainin
g ne sal wned 30.00 he
nd ranging ave
y of nine children child is ag is a girl,
a steer,
dog at he log at he
nail ka
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Til is coin wo
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The thou
is low and oms. The
ami ty in low
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His sale ought
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winter fern en cutup wheal
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## dere wenty yearm, on ond 

$\qquad$ nhis oows and lived in a hand-to-mouth eral years, sustaining his family by the
of game nd the sale of sk ns. In May,
e ownee 30.000 head of actle, duly
, and ranging over the plaing. He ${ }_{8}^{8}$
 ope a steer, kill a $a$. wolf with
n dog at
is
a nail at her arm's lenoth. It
hail keg, nearly filled wit
he pantry is a flowr ba
small or at most a medium breed, that can be
fed up to two or three hundred pounds antine
months old, and then be ready to put into the
pork monthb old,
porkl barel.
The Yorks Mhe Yorkshires exhibited by Capt. John B the finest specimens of the pig family that we
ever saw-Mass. Ploughma. winter care of stock. IT Wi il state what an ane long
and close observation wintering dairy cows
has developed. A half century or more ago has developed. A half century or more moro
the farmers of New York were less careut, of
their animals than they are now. It was no the farmers of New York were less careful of
their animals than they are now. It was no
uncommon occurrece then for farmers to le
theirconth their cattle run all winter with no other pro-
tection than a board fence or an open shed a a
the side of the yard, and when they did so, it tection than a board fence or an open shed at
the side of the yard, and when they did os, it it
cost according to size ${ }^{2}$ to 2 tit tons of hay to
winter a cow, averaging for 26 weeks 27 to 30
 lbs. of hay per dav. When they built barns
and sided them up with green lumber, sothat
Fhen the boards shrunk the cracks between
them wore half an inch or more in width,
a. them wore ha'f an inch or more in width, a.
the stahles were sanranged that the win
that whistled through these cracks swept a that whistled through these cracks swept all
the heat radiating from the bolies of the
stanchioned cows un into the loft and out stanchacked cows un in to the lof and out at
the cracks above, the case was not much im-
proved Some saing in waste was effected
and that was about all Bust when thene barns were succeeded by tight ones, boarded
bith mathed stuff well seasoned, and the
stables so arranged as to utilize the head rad stables so arranged
ating from the cows bodies, there wasa a rerea
diminution in the cost of diminution in the cost of keeping. A saving
of one third of the keep formally used was effected. Eighteen to twenty pounds of hay
a day kept the cows in better condition in the
comfortable stabless than twenty-seven to thirty could in the old ones or in the open yard
When tight barns for cows began to be built in central New York, alairymen were perfectly
surprised at the saving it effected in fodder I have, time and again, heard them declare
from estimating, what $I$ found to be true by artual weighing, that a tight and warm stable
acted fully one third of the fodder formerly
saved
nsed in the open ones for a lond time so gener used in the open ones for a long time so gener
ally in use. I would suggest, if they have not
ald already done it, that the dairymen and stock-
keepers who have suffered from drought can not in any way cheapenthe cost of wintering
their stock so much as by providing for
them the most comfortable quarters they pos their sto
them the
sibly can. But there is one consideration which should
not be overlooked in irranging for atitht barn
and that is proper ventilation and that is proper ventilation. The owner of
a tight barn, unless he makes proper arrange.
ments of this kind, will soon have what is
 Colt air is nnt neeessarily good air, nor i
wharm air neeessarily bad air, althhugh the
chances are that air made warm by anima
radiation of heat will become vitiated The radiation of heat will become vitiated. Th
gafeguard is effective and properly arrange
ventilation
 vocates and every man who takes measuree
to profit hy the above suggestions this winter th pront hy the above sugestions this winter
should study his plans carefully to gain goo
air without having a chilliag current strike his at without having a c
stanchioned animals.

Cows-THOYR THAT PAY.
cow costs but a trifle, if any more forence in the value of their product should be credited to her as so much interest on
her estimated valuation. To illustrate:-I a cow simply y yieldede enough to pay her wha and nothing more, she is worth only what
she would bring of the butcher. If anothe yields a net profit of $\$ 20$ a year more than
her keeping, she is as good as $\$ 200$ at inter est. Still, farmers are sometimes so negli
gent of their own interest as to sell thei that is nearly worthless. This is not as should be ; and so long as the practice is
continued the stock of the country will de teriorate. A "good sentiment is expressed in
the couplet "Beef a poor cow ever, sell
One cow of a herd may be dear at $\$ 200$ eed and treatment every day, often vary 100 per cent. in their profits. Weed out the
poor, perpetuate the good. The stalk of the
wild apple may be made to bear the russet, the greening or the golden pippin.
Imported cattle, or cattle taken entirely different climate from that in which they were bred, seldom show the same de gree of excellence as they possess at home,
unless given special care. Old cattle fre unless given special care. Old cattle fre-
quently due before getting acclimated. Thi is strikingly illustrated by shipping then south, especially in the spring of the year,
if the animal is fat. The arterial system
first takes cognizance of the change; the
pulsation increases to twice its normal rate,
ferer engendered and death ensues.
No animal should No animal should be required to use, and especially so if that would re
ow from ow from which you hope to mane good
butter. It is sufficient on this point to say that the pure water is an indispensible art butter or cheese can not be made where goo
water cannot be obtained.

Roots for stock feeding.
In Brittany the parsmip is becoming the
favorite ront for stock feed. And its culture sextending. In the Channel Islands this roo
forms a large portion of the fodder of the sey Guernsey and Alderney cows, and muc
of their value as rich milkers is undoubtedl
 the condition of a bree- of animals is caused by
a long period of careful leding, and this is
conspicuous instances of it. This' ro is rany parts of France is substituted as oa
or horres, 16 pounds being given a day wit
he best ef 9he boust effect. For pigz it is also largely used
day. One coked roots beeing fed four time day. One great advantage of this root is it hardiness; the supply for spring may be left in
the ground all winter, and din the best condition
to harvest at any time when needed.

## how to feed pigs

 get a little spare cash. The kind with smal
bones. small ears and short nose, that with ood keeping, at a year old would make about
three hundred and twenty-five pounds of rork was my favorite (the firrst I ever fattened eighed 260 pounds at eight months old
Milk and potatoes are the best food for pigs
fter they are weaned, to make them thrive hey alsoy relise weaned, tow make trains of corn as well aa
a squirrel does a few nut squirre does a few nuts, as they grow along,
In the easoon for it, they should be supplied
daily with fresh green weeds or clover; a few arily with fresh green weeds or clover; a few
green corn thalks are also oood of feed them in
their seanon and the slops and refuse of the itchen with a little meal are also good. With to surfeiting, and keep growing right along in
qithrifty condition till ahout two months before
killing time, during which they should be fed liberally with more concentrated and fattening
food. Bioled pumpling, thickend while ho
with corn meal, are excellent for them eo als iled sweet apples, thickene tor with meal, an and is scalded meal alone; and some peoply think
that, fur some days, pevevous to slaughtering
time, they hould be fed with dry cort and pure cold water, as these make the meet harder
and sweeter- R. Smith, in Germantoon Tele.
graph.

Twit carbon for hogs. Carmer has failed to to norm says: the ao obsidity with will devor quantities of rotten wood. This bon being an antiseptic, the instinct of the animals leads them to eat it, as the instinc
of dogs urge them at times to eat grass because
its writer had a pig which weighed acabout forty pounds, put into a pen and carefully tended in
every way. The a Howance of food was, with
the chance offal from eat chance offal from a small kitchen, sixteen
ears of large southern corn per diem
bice a day. Hiven
Having a kiln of charcoal in the oods close by. 1 determined to try how much the digestive organas of the ponverted, into fayt, which
is but another form of carbon. By degrers the Supply of corn was diminished and carbo
substituted for, it until finally the corn was re a pig was butchered and weighed, net, tw hundred and five pounds, and the net, tw
meat were of exceptional fine quality.

The experiments in ferding cattle,
 weeks, sand endint March 17, 1874. The steers, fifteen in number, were short
horn grades of medium quality, bought from
armers of the neighborhood the previou ummer, and were, with hte exxection of No
3 and two calves, past two years old. Lot No. . .-Steers Nos, $1,2,3,4,5$, and 6 ,
were fel in the lot with thirty others, with.
out shelter of any kind, 24 pounds of husked cirn in the ear in boxes. and timothy and
clover hay in racks ad llitum, they also had clover hay in racks ad llbitum, they also had
ready access to water at all times. No 1
weighed 1 n Nowember 17 ,ht. 1,120 pounds,
tan












 ,on had dix pondis of obrn meal morning



 One of
 to provion teare is that the oommen will

 aing thin may beseon by oamparing thoo












 rence is, that the time to fed catte is who lves would have shrunk in weight iostead of
 was bought April 23 , 1873 , and weithe
20 opunds. H e was immediately turned on as put on corn November 17, th with th
 Mix a nice pudpring sauce orn starce and sust cold water enough to dissolve thoroughly, then pour on a cup of ra half an hour. Then add two teaspoonsrawherry or raspberry juice. In making
auce if the flour is just as goo man tarch. Use a little more water than the
recipe, so as to allow for boiling away nit Many Canadian laborers have left the
arms and workshops of Vermont lately on

THE FARMHR'S ADVOCATH.
Dec. 18
 course of
the farmers
of Norfol astern Cour
husbandry
nimal food tative
 cem iny Bid

Andiur roint
and

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 thio orininast
thanerat yricean


Thereat wait Hexise orsex

 ho bet aivanatic anie tian minid oee



short time." He adds that he is now aiming
at 1,000 bushels of onions per acre, then a tre 1,000 bushels of onions per acre, then a early potatoes, or if straw-berries, 12,800 quarts, or 400 bushels per acre. The amount is not wholly impossible; as we have known,
mider our own observation, this rate on two thirds of an acre. $-N$. $\boldsymbol{Y}$. Obserecer

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|  |  | half of the animals bred or the farm are

reared and sold fat at two years old, only the
best of the heifers are kept as breeders. In best of the heifers are kept as breederss. In
the epprig months a olot of to stotstising two
two years are brought in and put on the pastures,
When the undes yisited the farm, they saw a heon the judek of fortery fine buarno, bhey sraw saing in a sing efoeldo of obtont forty acres. The The
pasture was partioularly rich, the lot made pasture was particularly rich, the lot made great progress, part of thom are now tied up, of Decembere There i is allout a Leteicester
ofreeing stock upon the farm. As we have
bre dred eding stock upon the farm. As we have
said, the third years grass is generall eaten
bit corn crop The Corskellie Leie wastereding have been well known asp prize winners at the local
exhibitions. Tups are aded periodically exnibitons. Tups are Part of the estock are
from southern flocks. Part bred pure, and the tups partly sold offo a
lambs and partly as shearings. For two o three years parst Ofxord Down ont tuph have been
mongst the cast ewes, and the produce has been soll off for feeded, nn. A small Cheviot
 ands. A crop of hallbred lambs are take
from them and sold in August and the moth from them and sold in August and the motl.
ers being fattened are sold to the butcher.
ORDENs. - Mr. George Shand, tenant of
the farm of Ordens, was awarded the seoond prize of fl0. Between the time of the re
moval of the crop from the ground last
 this spring, there were formed over 10,000
yards of drains. The leading drains were 3 feet deep, and the side drains 3 feet deep,
he whole being laid with pipes. The cost of that work was w111. The steading is
convenienty situated for the working of the orm. It was built over twenty years ago. The north side or back of the suare runs.
parallel to the turnpike road, and the dwel ling house is a little to the south thereor.
The steading is in the form of a s square, Which itea entered from the south. The west
winh of the steading is about 78 feet in wing of the steading is about
length. It is a double building, two roofs
rise ing from the centre e wall, having sheds forsix carts, and a bail-house opening to the o
or west sides: and opening into the square a fyre
and or the cattle, $a$ stable for seven horses,
hay-house, andla servants
sleeping appartment The north wing has a ength of about
feet, and contains two double byers, each
den feet, and contans tho turnip she bet between
for eight catte with a
Oh
 length of about 90 , feet and contains a double
 cows, a bre por of harses. The south side
stantel for a pair of hor of the square is is enclosed with a detached
building, octanining poultry house and other
but accomodation, and a byre for eight calves.
At the sotuth-ocner of the suare there is also a detached milk-house, and between
and the ofher buildings $a$ water reservoir
 byres and stables, and the liquid id partly
applied to torm $a$ compost for top.rressing
and The side walls of the square are only seven
feet Ieet high, but the arrangements under the the the
new lease include the heightening of th
 done mostly by the tenant. Trenche
Were east, and rickle dykes built upon the
top of the excavated material. The stones were cast, and richec ayaterial. The stones
top of the exavated
were obtained from the fields in the oousse were obtaine perations, to which a oonsider-
of trenchin ob breadth of the farm was subjected during
hla be beralase. The extent of the farm is
the last leat
276 acres, and the whole is arable. It is 276 acres, and the whole is arabal. $1 t$ is
wrought on the six -years rotation, the corse


 but principally the former on clean
land The soil is light, with a hard
lit letentive bottom, The manure is appied
rewhen the and is broken up for turnips, with when the land is broken up or turnips, with
the view of afeecting the soil during the six years of the shift. The turnip break gets per acre 20 square yards sarm manure,
mixed boushes, and two hundred wight of mixed bones, and tinc anlly superphsphates. other manures,
In addition the corn and grass crops are an
wallut yon tressed, the manure in the former nually top dressed, the mannere in the forme
case being put down when the seed is sown case being por instance, $f 40$ were spent o
Last year,
extra

arm is wrought with three ploughs, and

there is generally a fourth pair of horses Or driving turnips and anter extra Thork. | tie are a breeding stock, and the farm carries |
| :--- |
| hundred head. The principle upon which |年e stock is kept is to have 25 animals or

 however, one or two more than 25 ows,
neet exigencies, an s last $y$ ear, when 28 salves
 Shorthorn, and partly crosses with shor
orn type, and high celass bulls sre sed. The breeders are kept up from the
best of the heifers. The calves generally suckle their damens. They are kept through
swas grass seasons, and sold off when rising wo grass seasons, and sold oft when risimg
three years, either in December or in the spring months. The stock are of a very high character for the sizz and quaility of th roprietor offers to advance money for in lent of f550. This amount has already been expended, but the tenant has not applied for
the capital from the proprietor.- - Mark Lene Express.
A correspondent of an English agricul. Yual jourrall gives or the following acoount of
he great trial of reaping machines at Soissons, in Franoe, neap wiich machine were some
 ry, and the care when ist
rials efficient tests of the machines, it is instructive.
are of ancours opecarrance or hroughiout France, being supported and mostly managed by
Goverument. aiternpts have been made to make these conconrrs international, and as the Goverra
ment is ready to bear the expense they are liekely to increase in number so long as ex.
hibitors are willing to take the troule
to attend and inour the necessary expencotures. Some of our leading Engisin maters time to
ing machines thinking it abo
make stand, determined to leave all other make a stand, determined to leave all other
shows to agents, and to put in an appear shows to agents, and to put in an appear-
ance at 5 Soisoson only, hence these trials were looked forw
dinary interest.
"Upon arriving at Soissons, the day be
fore the competition, we drove to the farn
 place conld have been selected one chosen on
wheat in two fields.
The one commence operations upon, and whic
proved sufficient, contained about 70 hec tares (175 acres); the wheat was strong, tal
and a good deal laid in placess; we estimated the yield at quitite 5 qr. an acre, M. De
oves is a fine specimen of a French farme
 was to be seen either in the corn or orthe bee
root, and the house nan homestead was
has arge, commodious, and such as mont En lisin harnero others we could name, would con
farm
vinee Be british agriculturist that that thongh
ind knowledge of
Great Britain.
"T Treturn, however, to the reaping ma
hines. Trials in France are conducted in yines different manner to what we are ac corstomed to see in England. On the presen
ocasion there were, in the first p
place, commissionerss then two tiries, one me me
hhanical, the other practical, 12 memberr on each, To assist these 29 gentlemen, 20
oommissioners of surveillance were appoint-
 ed. As the though crosed our minds that
body, the thoush
such a force was altogether out of propor tion to the work to be done, and that on
whole thing would break down from its own weight. In this, however, we were agree.
whly disappointed; everything proceeced in ahly disappointed, everything procer. The
the most orderly and revala maner
competing machines, 19 in number, were compoting machines, 19 in number, were
drawn up in line outside the Soisons Kail way Goods station. Here the mectanical
section of the jury made a minute inspection section of mechine (each exhibitor previously
of eachat
had had to furnish particulars of the me. had had to furnish particulars of the me- me
chanical details of his machine and traw ings) the extibitors explaining their merite
and taking to pieces any portion ne the Hr , and aked. After completing the ingpection
desired
mal t the and taking coppous nrpose), , lots were draw
appointer forthis purd
and the machines despatched to the field

 lot, to note every stoppage and the cause, oo, revent interference from any but the
ohibitor, and to report to the jury. "Mounted soldiers and soldiers on foot in abundance were emyloyed to keep the courre dear, and to maintain order, which they did Weil and poitely. Mnemech to kee apart,
the eractical jury ypeare to
but throughout the two days the trials hasted they were constantly passing from
nachine to machine in regular order, mat the exhibitors seemed to be kept in perpetual motion. Ihht he horses employed were short-l-ggged,
h but powerful auimals, about $\mathrm{lg}, 2$ to
 horses, the first prize machine out 2 acrese of
this stout erop in 65 minutes, and several machines did the same work in about the
same time. The thought occurred to us as we saw them walk away whin
ing a hair,' surely at our Royal meetings we ought to have a class for agricultural horses under 16 hands with, it will be seen that nine emachines were entered by English makers, five from Am. erica, and an equal number or Prench-made
machines.
All were self-delivery.
The French don't take to any buta antomatio reapers. The readers of the A Griciulural
Gazette are so well acounainted with the work. ing of reaping machines, that we do not
think it would be interesting to enter into details of the oontest, nor to ato atalogue the
mishaps through encounters with boulders

 Mosesrs. Samuelson two, and Moesrr. How-
ard two; each had their Mrad the two competitors, W. W. A. Wood and
han .
 petior, Johnstone hind hir from the onteot.
the round, but withrow from
It was rumored that lie was afraid of the big laid crops. All the machines made good
work, and the wort, ten have been deemod d, eerfect. years ango, woonc
however, in whieh Howards
The manner,
Internation
 portion, markedit out for the front rank:-
At the ordered to follow each other, in order to give the jury a better opportuntyy of examing
the rellative guality of the sheafing; and an excellent plan it is, for there the sheaves
laid side by side and Iide side by side, and none could say the
crop was not uniform. At the close the trials the two section of the unry and the
commisioners retired to a tent, and after an hous: or two spent in conf erence, the awards were made known, liternaly with a been engaged for the spectacle, and a a large Leen engage ladiee and ge ge
assembly of
gathered in the spacious tent. "Mr. James loward, of Bedforc, was who handed him, after a highly compliment-
 any country.'
"Mr. osbor Burn, America, next stepped forward and
was loudly cheered
He Was loudy cheerea. He received a gold
medal and 800 fr ; and Mr. Pidgeon, of
Banb Banbury, of the fro of Samuolson \& Co.,
who was also heartily cheeredt
silver silver medal and 600 fr. The French makerss following, receivect prizest or hiter the cerc.
chines made in France, and after mony the divers
warded with 20
fr. each. "On our return journey we were struck
with th ditigence and promptnes of the
French farmers French farmers; land that we hatd pasaed a
few days before uncleared of its crop, was few days before unclearea, or its crop, waid
not only cleared but broken up and manured
 and in more than the 1873 crop; should thid
000 mime estimate prov correct, France may be able before next summer to send us,
OOO worth of wheat and tlour."
To Builp ART. Proor Crip. - Let the the
Hocks at the upper end be shaped sugar loat fashion put pot each block a tin pan in-
verted, then the sills on the pans. Pf there are no stables or sheds attached to the hooses
for the rats to climb; that crib is rut-proof.
.ere are elieven horsees of various age

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A Fisher Capturing Its Prey. We have many bird destroying animal In Canada. In the older seetiled parts of the country they are becoming extinct,
still we have too many foxes, skunks and weasels among un yett for our pronkit. The
wild cat is now rarely to behe prord The

 Mrar in thin city, however, secured one in
Muskoka, last year. They Mukkoka, last year. They are some thing o
the noture the weasel, but about as large
as a out Perhaps they may be more cun as a a cat. Perraps they may be more cun.
ning and stealthy.
agine the sudden spring am at the eosily im.
and gine the suaden spring at the poor birds
that are perohed in $a$ high tree, for their
hight nights rest. The heavy fall to the ground
is, alone, sufficient to kill the bird ; while

when it wa
quent time
,
There was no fertilizers used save some very other year spots that needed it, and every other year a dressing of plaster,
bushel to the acre. The wriole of the aftergrowth yearly was retained; not a hoof was
permitted to touch the land This is to This is encouraging. Farmers are begintecting their an inkrass lang of the benefit of proby retaining part of the crop, or rather by not denuding their land so much. Here an
annual crop was taken and nothing or littl annual crop was taken and nothing or little
given back to the soil. Land may thus be nade self-sustaining. Grass, instead of imoverishing, enriches it. It is only when the
ntire, or nearly entire crop is removed, and

fisher capturing its pret
he fisher, being of a more supple nature ares as itttle or less than a cat for the all more especially when it secures such
rize as an it now securely holds in its nd hy its claws securely holds in its mo
doks grass thprove the soil We hear it asked sometimes whether grass nproves the land. That it "runs out",
pmmonly observed.
The subject is tteresting one, and not diffic cilt of solution. here are meadows in England centuries old he prairies and savannas, are older still

Tw old is beyond the memory or man. These are indeed permanent grass | man. |
| :---: |
| nds. |
| nere is | Here is pretty clear evidence that the land stead of becoming poorer or exhat the land


reproduction; and it afforded it at ouce; it
was there in the spring, close to the was there in the spring, close to the ground This did not hurt the growth, but added itself to the regular crop-adding about a
third in this case. But the root increase forming a dense sod that excluded weeds and afforded additional protection against the
frost, that is, the decayed root matter or houmus
roots.
Wh When this sod was turned down, which it
was after was after thirteen years' growth, it proved to and in good condition the surface mellow crop of corn, oats ane potatoes whish followed was the best crop which the land had ever
produced. This by considerable. This tes-
timony was that the land was richer than
al lad bare to the frost that
and laid bare to the frost, that nd not, apparently, of the soil We have it not to remember that we ever new of the run-ont grass field to be poorer
han when it was seeded down, and generally better.
Alth Although the crops noted above were
pretty uniform for the thirte land was 'mown, not increasing in yield, yet the soil was increasing in wealth all the
while; and though not suited to an increased rop of grass-perhaps because some of the onstituents were not sufficiently abundant yet growing a heavy yield of grain.
We are thus, by leaving the afte onstantly enriching our land for immediate nd subsuquent benefit. Remember there is

Dec., 1874
There is no expense spearking of, and on
ing to secure the cr ing to secure the or
ing the soil, no manure, no expe
fifty bushrls The average
varies largely in States, acording ports, the averag

- nine bushels. In
to about thirteen. to about thirtee counts of crops
approximations
the avera the average yield
thirteen bushels acres which yie the grain that a from twenty to
bushels of beaut approximate acco
reveals certain im the cultivation
which should which should a
a careful conside
sustained both sustained both
goil and by the of such meagre
not only rende pendent, pecuni
ment of the Gov It is an impo
than one respect, system of main,
him only, six,
wheat per acre; harrowing the gro
and cutting the about as great
eight bushels per forty and even f
fent state of fert bushels of feed $w$
duct may be eigh duct may be e eig
not pay to atte
costly rate. costly rate. T
large partion o
can safely be
fifty bes. can safely be
fifty bushels pe
tilled as it shou cultivate it. It
when the pione
moved the fores even sixty bush
the acre. Even me acre. Even
merous accounts
of the actual yie the product is
fifty, some sixt firy, some sixty
Here then, is a
furnishes an inst cultivation of
of Western of Western
down all the tin ground, let the
for a few week for a few week
and dry when
by a huge bonif
harrowed not harrowed (not
half bushel of
ordinary yield hald bushel ${ }^{\text {ordinary yield }}$
clean and plum be spoken of at
rate harvest is or thistle or pa
growing grain. growing grain.
land now cov
cleaned in the put in about the crst to the tenth
etor can rely on $t$ choice grain with
provided he sou urnishes a correc Americang are
fertile ground nent. When a and stiek of firev
being burned to
of of timber, the fel
to develop is carr after crop is grou
at devel turning one atom the ground. It it ceas to renovate
pletely imporeris
ment. But if $t$ to unaintain the returning a fair
some kind of fe

There in ino xpeneng for the prodection worth

 manuro no expenas of esed, but yearly good orpp. with daoided
Soil
Indianad
Farmer.

The bushels of wheat to the acre.

 thine buabelif then

 thirteon husheles, therere mut tee heandred sed

 tho grain that t great many farmerr raies | from wwent to twenty five and oven thirt |
| :--- |
| buabele on |




 anareful oonsideration of of the immense it oss | guataind both by the proprietors of the |
| :--- |
| goil and by the Govermment in onnequence |

 not only renderse tillerss of the soil more inde pendent, , pecuniarly, but
ment of the Government.
It is an impoverishing policy, in more than one respect, for a farmer to pursue that
system of ma magement which will return system of ma "agement which will return
him only, six, nine or twelve bushels. of wheat per acre; as the expense of ploughing harrowing the ground, putting in the seed
and cutting the crop with the reaper will be about as great when the yield is only
eight bushels per acre as when the product is eight bushels per acre as when the product is
forty and even fifty bushels. Land in a per--
fent state of fertility will require about two fent satat of fertility will require ahout two
bushels of seed wheat per acre. The pro
duct may be eight or not may be eight or ten bushels. It wil not pay to attempt to raise wheat at such a
costly rate. The prodiuctive capacity of a
large large portion of the tillable soil of Americ
can safely be computed at can safely be computed at forty or even
fifty bushels per acre, provided the land afty bushels per acre, provided the land is
tilled as it should be, and as it will pay to
cultivate it cultivate it. It was of common occurence
when the pioneers of our country first re When the pioneers of our country first re-
moved the forests, to hear of forty, fifty and even sixty bushels of beautiful wheat to
the acre. the acre. Even at the present period nu
merous accounts are rendered every season of the actual yield of large fields in which fifty, some sixty and a few more than sixty. Here then, is an impressive fact, which furnishes an instructive commentery on the
cultivation of wheat. The pioneer farmer cultivation of wheat.. The pioneer farmer
of Western New York, was wont to cut
down all down all the timber on the given area of ground, let the trees, brush and all remain
for a few weeks until the weather was hot for a fow weeks until the weather was hot
and dry when the ground would be cleared
by a huge bonfire by a huge bonfire, the surface thoroughly
harrowed (not ploughed). and one and a harrowed (not ploughed). and one and a
half bushel of seed wheat put in. An ordinary yield would be thirty bushels of
clean and plump grain. A fair crop would
bea be spoken of as firry bushels, and a first
rate harvest is fift bushels without a weed or thistle or particle of chess among the
growing grain. If an acre of fair whent growing grain. If an acre of fair wheat-
land now covered with heary timber be
cleaned in the same manner and seed wheat cleaned in the same manner and seed wheat
put in about the first of September (from the etor can rely on the yield of forty bushels of choice grain with almost absolute certainty,
provided he sowa choie sed. provided he sows choice seed. This fac producing capacity of the soil. But most
Americann are so grasping that the most Americank are so grasping that the most fertile ground that can be found is soon
badly impoverished by injudicious manage.
ment. When a forest is cleared, every tree and stiek of firewood is remored instead o being burned to ashes. In this single crop
of timber, the fertility it has required ages
to develo to develop is carried off the field. Then crop after crop is grown and removed without re-
turning one atom of fertilizing material to aid in maintaining the original fertility of the ground. It is a difficult and tedious pro-
cess to renovate 2 field that has been comcess to renovate 2 field that has been com
pletely imporverished by injudieious manage
ment. But if the precaution were observed ment. But if the precaution were observed
to naintain the fertility of a rich grond by returning a fair equivalent in the form of
some kind of fertilizing material overy time
a crop is removed, there would be no diff-
culty in raising from thirty to fifty bushels $\begin{gathered}\text { The leaves require fresh air and sunlight, } \\ \text { and perform their functions perfectly or im }\end{gathered}$ culty in raising from thirty to fifty bushels
of superb wheat from every aree that is
adapted to the production of this sart of of superb wheat from every acre that is
adapted to the production of this sort of
grain. $N$. $Y$.
.
(0)atden, (O) Chatd aud forest.
pruning frutt trers. Dr. H. Clagget,in a communication to the nd low pruning, remarks as follows: The practice of pruning down low heads vely recent date-has hadand still may have
orchard,
 thenat.ar
Every
and deve
nany admirers. But with careful observaits day-run into the ground, and the sooner
it is buried out of sight the better for the success of fruit growing. For it is progress
sack wards, 4 ownwards and in conflict with the nataral laws of tree and fruit develop-
Every tree and plant we cultivate grows
and developes according to natural laws, and requires for its high development,
certain conditions. To obtain the best ertain conditions. To obtain the best
results, we must seek to find out the best id nature in work in harmony with and Every tree applying them
Every tree and fruit are made up of ele-
nents ool ected from the earth and air. The

> elements collected from the earth are collec-
ted by the roots and pass through the stem ted branches into the leaves, where the ombine with the elements from the air
from which the common vitilized element from which the comelopment of the tree and
pass to the deons
fruit. The roots and leaves, then, being the see to it that both these classes of organs ar supplied with the conditions best adapted to The perfect performance of their functions.
The important inquiry, then, with every fruit grower as well as cultivator of any plan should be-what are those best conditions
With the confident assuranee that With the confident assuranee that, in pro
portion as he supplies theme, will be th portion as he supplit.
measure of his success.

ots frow the mapiter cabder. The growing season is nearly over, though still growing and the celery is cflery is splendid growth within the last few days. The season has been a favorable one, with
the exception of the drought. Well, says a whole army of our readers, is not the dronght sufficient to ruin the season's crops? Well
yes! I suppose it is, unless we cultivate let ter than most of us do. But I am satistied
that if we cultivate our land as we might and ought to do, it is very rare that we could not counteract the effect of such droughts as
we have in the state, sufficiently to give us
at least fair crops. we have in the sta
at least fair crops.

I would rather have a very dry season, tha
very wet one. A diy season is generally hot one. A wet one, upon the contrary, If land is thoroughl cultivated, the crops will endure a a great dea of dry weather before they will give up and and
die. The roots will run deep and in every die. The roots will run deep and in ever
direction for moisture, and in so doing the
find plenty of find plenty of plant foold to nourish them and
as soon as the rain comes, they are ready to as soon as the rain comes, they are ready to
get the full benefit of it, while the hall plowed land, and the half cultivated crops are in a condition to get the full benefits of
nothing. In the mean time the discouraged nothing. In the mean time the discourage
owner places the blame in every conceivable place, except just where it belongs.

Upon the other hand, in a very wet season and as a matter of coursece do not come in and as, a matter of course do not come in
contact with near the amount of plant food that they do in a dry soil.
In addition to thi
In addition to this if we have even a very
hort season of dry weather, when crops are short season of dry weather, when crops are
in such a condition, it makes them suffer much more than if the season had been rather
a dry one from the spring. I bave noticed dry one from the spring. hence another season will work for complete and thorough drainage. Suppose give you a few short papers up-
on the practical resalts, and the lessons of the last season as I,have learned them?-By

## Views on the Hindson Biver

## Continued.

We give here two scenes lower down on Jessup's Great Fall's are just below the coninuence of the Hudson and Scandagoa
iivers. The following description is from the pen of B. J. Losing: "We followed a path down the margin of
the roaring stream some distance, and rethe roaring strean some distance, and re-
turning, took a rough road which led the the
toot of the Great Fall. From Jessup's Landing to this point, a distance of more hhan a mile, the erver descends about one hundred and twenty feet, in some places
rushing wildy throngh rocky gorges from eight to one hundred feet in depth.
. The perpendicular fall is seventy-five "The perpendicular fall is seventy-five
feet in depth. From its course back some feet in depth. From its course back some
distance the stream was checked with
thousands of logs that had come down from thousands of logs that had come down from
the wilderness and lodged there. They lay in a mass in every conceivable position, to
the depth of many feet, and so filled the the depth of manv feet, and so filled the
river as to form a saie though rough bridge Below these falls, and $2 \frac{1}{2}$ miles above
Glen's Falls, are the State Dam and Great Glen's
Bom.
The
nish water for the feeder of the canal which connects the Hudson kiver and Lake Champlain. It is 1,600 feet in length. About
two miles above the dyke is the Great Boom thrown across the river for the parpose o catching all the logs that come floating from tour of them bolted together raft-wise. The ends of the groups are connected by chains,
which work over friction the boom to accommodate itself to the mo tion of the water. Each end of the boom i secured to a heavy abutment by chains; an
above it are strong triangular structures above it are strong triangular structures
break the ice, to serve as anchors for the boom, and to operate as shields to preven of the current. At times immense nom lers of logs collect above this bonm, filling spring of 1859 at least half a million of log were collected there, ready to be taken into
small side booms, assorted by the owners uccording to their private marks, and sent down to Glen's Falls, Sandy Hill or Fort
Edward, to be sawed into boards at the for oncr places, or made into rafts at the latter,
Cor a voyage down the river.
Heavy rain and meyage down the river. riveavy raver
in, wing. TT e great boon the snapped asunder Al, wing. T/ e great boom snapped asunder,
nd the half million of logs went rushing lown the strean, , lefyying every barrier
The country below was flooded by the swo len river, and thousands of the logs sat-
tered over the valley of the Hudson from tered over the valley
Fort Edward to Troy.
A correspon dent of the Country Gentleman
says that a way to banish rats is, plant asphodel near the barn or siable wehre th $y$ are, or put sion for this plant that they will quit the pre.
mines where it is. If they are in dra ns or in cell. rr, , scatter sulphate of iron (copperaas) in
their
runs. The copperas should not be dis. their runs. is nur coest and cheapest disenfect-
golve. It
ant. The sulp puric acid buran their feet and They leave in a phort time, without dying
Thi will be appreciated by every housekeepe rat.
ras had to endu.e the stench of a dead
A succeaxful importation of live catlle from
he River Platte, in South America. was lately he River Platte, ind South America, wan aitely
made into F ngland, Near a hundred head of
xen oxen were Arpped uron the steamer a"d taken
from the Argentine Confode ation thivandon
in twent four day. On thir arival thev were in suc) g'ol condition that after a week' rest and feed, they were 8 ild for 880 each
845 in advance of their c st in South $\triangle$ merica

THE FARMER'S ADVOCATE-
Dec., 1874.

puddings and pies
and other holiday cheer, so I will give a few
eceipts of the
one thing which I wish particularly to draw
one thing which I wish partic
mirth at meal tin
Everybody should plan to have pleasant good fooo. A A little story-telling, a little
dite reading, it may be of humorous things, an edotes, etc., will often stimulate the joyous
elements of the mind and cause it to act vigorously. Try and avoid going to the
table all tired out. Let all troublesome topies be avoided. Don't scold domestics
Don't discoipline children. Think and say something pleasant. Cultivate mirth, an langh when anything witty is said. If pos-
sible, never eat alone. Invite a friend o whom you are fond, and try and have a gooc
time. Friendship and friendly intercourse time. Friendship and friendly intercourse at the table whets the appe
the flow of animal spirits.

$$
\overline{\text { PUDDING. }}
$$

GET.- Half a pound of flour, $\frac{1}{1 l b}$. be suet chopped very small, one teaspoonful
salt; mix these with just sufficient milk, or water, to keep them together. Boil tir pound of stoned raisins may be added
Sweer SAuce.-Half a pint of nice brow
sugar, a piece of butter the size of a smal sugar, a piece of butter the size of a smal
egga beat with a spoon until it becomes froth,
stir boiling water into it uitil it becomes the stir boiling water into it uatili it becomes th right consistency, then add half a glass of
wine and a little grated nutmeg. Keep it near the fire.
Costard Apple.- Pare and core 12 sour and bake
Marlborocir.--stew nime tart apple 8 oz. butter, rrate the outside of two lemons squeeze the juice of one lemon; 6 table spoonsful water, 1 lb . powdered sugar,
Yorkshire.-Two eggs in a pint of milk, little salt, and flour enough to make Bake quick, in a long tin.
butter and sugar mixed.
miNe fieg

One pound finely-chopperl roast beef; hal pound of suet do; hald peck pappes do; one
pound raisins seeded; half pound cleaned currants; one nutmeg; two tablesponnfuls ground cinnamon; one do. ground cloves
some mace; one pound sugar; and sweet cide some mace; one pound sugar, and sweet citar
to moisten the whole. Mix and let it stand all night; when using ad
cut in very thin strips.
Plain Mince Pie Wirinout Meat.-One
pound and a half crackers; three spoonsfu pound and a hatrof hate a cup of vinegar; one cup molasses; rasins the butter and vinegar, then add the
Melt the
rest and fill your paste; cover as usual.
how to кееहP meat.

Meat is much better for family use when Euglish method for keeping meat for some time has great merit. Experts say, hang
up a quarter of meat with the cut side up, being the revere will remain in
leg, and the juice leg, and tre to the cut, and dry up by eva-
and not run poration. It is worth
made will be continued.

Sausage Meat. - The proportions for sausage-meat are, a pound of lean fresh veal,
and a pound of lean fresh pork, a clove and a piece of nutmeg. Chop the meat fine, or

## run it through a chopping-machine; grate a little nutmeg and cloves also a small piece of cinnamon, if liked; mix them, and also of cinnamon, if liked; mix them, two yolk salt and pepper, with the meat: two of eggs mayy also be added, it handy. You then know with what kind of meat you then know with what weal and less por sausage is made. More ved may be used, and vice versa, according to may be taste.

 To Keep Cellars from freezinig.-friend of ours, who has tried it, says h prevents frost in his cellar by pasting th
walls and the ceiling over with four or fiv thickness of newspapers, a cartain of th same material being also pasted overthe smal
low windows at the top of the cellar. The papers were pasted to the barofijoists over
head, leaving an air space between them and hea, flor. He reports sthat the paper carrie
the
the reots the roots through last winter, though th
cellar was left unbanked, and he is confiden they have made the cellar frost-proo Whatever paper is employed, it will be neces ary to sweep down the wanls thoroughl
and to use a very strong size to hold th paper to the stones. It is not necessary to
press the depressions of the wall; every air
space beneath it is an additional defence pace beneath
Burning Chimney.-If it be desired to extinguish the fire in a chimney which ha een lighted by a doors of the apartment, so as to pre vent any current of air up the chimney, and throw a few handfuls of common sattupo the same. The philosophy of this is that, in the process of burning the salt, muriatic aci cas is evo
er of fire.
Home Made Candles. - Many of our can be made economically, by mixing a little nelted beeswax conlle and to pevent it durability, to the candle, and to prevent
"rumning." The light from a tallow candle can be improved in clearness and brilliancy by using small wicks which have theeroughly
Roasted coffee loses its strength if lett covered. If you have no re ertacle purposely
ior keeping coffee, then keep it in a tin for kee. $\begin{aligned} & \text { wit } \\ & \text { fubstitnte. }\end{aligned}$.
Trinserrris: Pictures to Glass.
Coat the glass with varnish and balsam of fir in turpentine, then press the engraving on all air linbbles. Let it stand for 24 horrs, then dampen the back sufficiently to allow the naper to he rubbed off by the forefnger,
rulbing it till a mere film is left on the glass then varnislı again.

## sheers' hearts roasted.

Having washed the hearts, stuff each with an onion parboiled and then mimeer hane,
two tables ooonsful of bread-crumbs, half a teaspoonful of chopped or dried sage, and
sufficient sumicient back pepper and salt to season
highly. Press the stuffing well into the hearts, and, if necessary, fasten a little
muslin over the top to keep it in. Whilst roasting, baste frequently. They may alse be
baked, but care must be taken not to let them get ildy Any heart that may be left is excel.
lent hashei.
 There is no way in which the comfortable
abumlance of the tallefmay be better insured, while at the same time a strict eye is kept non economical expenditiore of soans to the
ly an almost daily addition of soup family dinner. it is only when concocter by contemptnous
often applied to it It is surprising from what a scanty allothe supplied. Let a roast of beef be consuml deprivel of every joint, yet, if the carcas is basis. The French understiand this to per-
feetion, and we read that in Parisian kitchens a closed vessel, containing "potage," is ever
a the fireside tribution the skilful grisette anon supplies
from the surplus
of preparation.
In the first $p$
In the first place, observe always to lay cutting the meat up, or if a booe, cracking it
well. A lump of butter adds richness, but is not necessary. Select such herbs and vegetables as you prefer, cut them up rery
small and lay over the meat, with a very little water and a cautiously small piece of
salt. Cover the vessel with a close fitting
lid and set it by a slow fire, this will draw out all the virtue of herbs and roots, giving out all
the same a different flavor from what is imparted by putting the full quantity of
water in at first. Turn the meat frequent.
When water in at nirst. gravy produced is almost
ly. When the grave up
dried tity of water to make soup enough for your
tamily. To a large shank-bone of beef three quarts or even one gallon is not too much to quarts
allow.
Whe
When to cool, and skim soup is dorone, take it of the from grease. Put it on again and be sure not to dish it up
unless boiling hot. Be careful to add salt nless boiling hot. Be careful to asparing. ly. Every table is supplied with a salmellar
and castors, so that a deficiency in these respects may be easily remedied; not so an over quantity. If other thickening than the
vegetable used, is deemed advisable, brown the flour for all
and oyster soups
$\qquad$ Inquiries so frequently come to me re-
garding the nature of bread mould, that it garding the nature of bread mould, that it of explanation.
Moulds of a
Moulds of all kinds, no matter where,
when, or how they grow, are plants. They when, or how they grow, are plants. They
belong to the great series of flowerless plants, and to the group of Fungi. In common with
many of the low forms of plant life, they many of principally of delicate white threads, consist principaly or and on the substance
which grow through anvishent. Take for which affords them nourishment. Take for first begins growth, it is by sending myriads of these white filiments through its substance
these threads absorb nourislment from the bread in much the same way that roots do theirs from the soil. After these have grown
sufficiently, the fibres near or at the surface develop the "fruiting" threads which we know as the "blue or grass mould," Under
the microscope this "blue mould" is seen t consist of thousands of minute colore
threads, standing upright, each of which bears at its summit a little mass of exceedbears an small glommular bodies, which are the
ingly
spores or reproducing bodies of the plants spores or reproducing bodies of the plants.
If these spores happen to be blowin upon bread or paste of any kind, they very soon
begin the growth of the white threads first begin the growth of the white threads first
descending. The round of life of a mould plant, then, is this:-First the spore falls
upon the bread, from this grows the mass of white thread (known technically as myceli
wim) and last from this grows the erect threads which produce the spores again. threads grows best where the air moist, hence drying the air in the pantry
one of the steps in eradicating mouldiness. Strong sunshine seems inimical to the growth of $m$
of sunlight.
As the spores are produced in numbers most beyond calculation, it is necessary to those which are to be found in every crack and allowing a strong draft of wind to blow hrongh will take out many of them; sulphur
may be burned in the room, in this case the loors and windows must be closed so as to keep in the fumes for from ten to twelve
hours; white-washing if thoroughly done,
will prove effectual in most cases. It is not hours; white-washing in th cases. It is not
will prove effectual in most
a a gool plan to paper pantries, as the surface
of the finest wall paper is rough enough to entangle and lodge thousands of spores up
on every square foot of surface. One word more: will not every housewife remembe the bread, and that the blue mould found on the surtace is but the "fruiting. It helps matters then but litflee fo con ore the greater
visible mould on the surface, part of the mouldiness 1 always in and not of thit loar. within three or four inc
external "fruiting" or blue mould.
What is the difference between pugilist and hatters?-The former makee themeselve
felt, and the latter make felt themselves.


NCLE TOM'S column.

 that yon hare beber






Byron, Oct. 14th, 1874.


 | siter |
| :--- |
| cand |
| cates |









## PUZZLES.

283.-- Very soft my first, Aery hard my second;
And my whole in sticks
Rather sweet is reckoned.
284.-I am a pair, yet only one, And genera ly found alone;
With mouth of brass and lungs of leather,
I can blow for hours together.
285.- My frrst is in vine hut not in grape, My secird is in now but not in past, My fifth is in in hyme but not in reason My sixth is in time
286.-A Puzzle Inscriptio
 Tapa ill fwa.T. er Ja ckfe
Ildoo wnan dbr Oke H. It. S. C row
Nan djil Lea met umbli


> hidden colors.
287.- What is thit color Edward?
 290.-
Luella.
transpositions.

$$
\begin{gathered}
\text { mineral. } \\
\text { mine }
\end{gathered}
$$

292. 

mineral.
293.
293.--Transpose what a man sat on into
294.- What word is that which is made
29ter hy adding a syllable to it?
295. - My first and my fifth are alike, $\quad$ My second and fourth have one ne My second and fourth have one name,
My third is one-tenth of my frrt,
And my whole will read two ways the $\underset{\mathrm{s}: \mathrm{me} \text {. }}{\substack{\text { my whole } \\ \hline}}$
fout for prizes next month olumn.

 tor ine ie, boir


 Your chane
 Wwo find hty Oet. 14th, 1874 $\overbrace{0}^{\text {oyon until now. }}$




 did have jillif foums


## redward

 robdward?sob lacks strength.


## uros

pan
that whi
ble to it?
fifth are alike,
fourth have one tenth of my frrst, the

Dec., 1874.

UNCLE TOM'S SCRAP BOOK.
Two young ladies holding converse over a
new dress-" And doeos fit fit well ?" aeked one.
"'Wit "Fit! Yes, as if I had
"Johnny asked his mother the meaning of "eapital punishment," Being informed, he
replied: Oh, Ithougt it capital punish-
ment when you shut meup in the pantry,"

A lady meeting a girl who had lately left
 live now," replied the girl
"In London no man thinks of blacking his
own boots." said a haughty Briton once to the late Mr. Lincoln, whom he $f$ und polishing his calf:skin gaiters. "W
A youth who was taking an airing in the
country tried to amuse himeelf by quizzing an country tried to amuse hatd head, but was ex
old farmer about hol bald
tinguished by the old man, who solemnly retinguished by the old man, who solemnly re-
marked: "Young man. when my head get marked: young man,
In a country town in Hlinois a few evenings
since, at a panorama of the Bible, eight--year older sat wrapped in admiration at
the best scene until the picture of Jacob and the best scene until the picture of Jacob an
Rebecca at the well appeared, when he looke up and said: "Pa, Pid you, see that picture

A gentleman in Massachusetts, being threa
eened with a contagious disease. said to his
 me; ouoll catch the scarlet fever." Willi-
standing back. looked in amazement upon his standing back. looked in amaze ment upon hris
para (wh, by the way is ? matern of pro.
priety), and fuickly asked, "Why, papa, who

On a toombstone in South Caro ina is the
following beautiful tribute to departed ww th: Here lies the bony of $R$, bert f.urdin
Mouth almighty, and teeth ackordin Stran er, tread lightly over this wonder,
If he opens his mouth you :re gone, by
 note see you before", "Very likely," reptied
nhe little gentleman, "I'm like a sixpenc among six copper peni s, not read."
ceived. but worth the whol of them."
"Won't you cut open a penny for me, pa
!" said a little girl, when she came hom pa. said a itle girl, "Cut open a, penny
from oshol one day. "Cone
What do you want me to do hat for ? aske her father. ""aunse", said the little girl,
heour teacher says that in every penny there "our teacher says that in every penny ther
A young lady had been teacking the Cate chism to her class in Sunday schoo, must on learn something about the collects.
inh her class looked up with wondering sur-
prise, but one little girl, with a broad grin up. on her face, said with great eaber sess, "O, know what they are! Mother says I used
have them awful bad when I was a baby."

A village shopkeeper, on entering his shop
one morning, found his Robby attempting to one morning, found his Robby attempting to
throw all sorts of somersanlts and kicking up as
great a rumpus as a seal in a tub. ." What are great a rumpus as a seal in a tub. "What are
yua about?" he inquired, looking astonished at the wild evolutions of the boy. "Obigin
Martha, sir,"" replied the almost exhausted youth. 'She's writ me a etter, and oer and
bottom on the page says: .Tura over
oblige.' and I've been going it for more'n half an hour."
Two Sotch worthies, rather fond of beer,
retired from a regular house of call to a field, retired from a regular house $\begin{gathered}\text { one } \\ \text { one fine evening, and sat down a a bench t } t ~\end{gathered}$ enjoy their favorite beverage al ne, having
previously supplied themselves with a fair previously supplied themselves
stock.
After imbibing it prety freely the
soth both fell aletp. About midnight one of them
got up for the purpose of retiring, but not got up for the purpouts very well, wandere
knowing his whereabout
about for a while and then stumbled upon his companion, whom he awoke, remark for 1
"Surely this is an awful size of a ronm, for 1
canna find the door, and I've been looking for canna find the door, and I've "ben looking for
it more than half an hour." "I ken naethin it more the size of the room," hiccuped hin
about the
companion, " but one thing I see," lookin

THE HARMER'S ADVOCATH.
up, "it has a tremendous high ceilin'." That
surely must be the famous hotel in Midland surely must be the famous hotel in
city, of which we have heard so much.
better whistile than whine As I was taking a walk early in September,
Inoticed two little boys on their way to school. Inoticed two ititle boys on their way to selt he
The smaller stumbeld and fell, and though he
was not much hurt, he began to whine in a was not much hurt, he began to whine in
babyish way-n t a regular roaring boy-cry, as thongh he was h.if killed -but a little,
as the the cross whine.
I he older The older bey took his hand in a kind and
fatherly way, and saids
"Oh never is a great deal better to whistle." whine; And he began
ful boy whistle
Jemmy tried to join in the whistle,
"I cant whistle as nice as your, Charlie,
 the whine out yet," said Charlie, "bit yo
try a minute,, and the whistle will drive the whine away,"
So he did, So he did, and the last I saw or heard of the
little fellow they were whisting away as
earnestly as though that was the chief end of
life

Bear Hunting in Russia. To us who have so little acquaintance with
Russia and itit inhabitants, it appears to be a
wild, uncivizized country, and the the accompany ing, ungcivinzed would lead to the same con-
insion ; but when we come to consider the size and population of Russia, we can under
stand that there may be very advanced civilization, as well as wild country.
The accompanying \&ketch a
Thne bear


bear munting in russia.
who by the way. is a pretty siza Io fellow, Rusian, who, stretehing forward his lefta, m
which is thickly biandaged. pu-hes it into m bar's open mouth and then titabs him wiit ribl the e
hand.
Rather dangerous looking work, but to the
Russian, who has often done the same thin Russian, wh knows just where to strike th be ore, and
bear in order
simply sport.
a bmart agent
"Sir!" said a tall, thin man, clad in a
worn, very shining garb, suddenly appearing
worn, room, "I have ventured to call to lay
in the res
hefore you one of the most astonishing inven-
hefore you one of the most astonishing inven
tions of modern times."
They all begin in some such impressive wa They all begin in s
as that.
that.
I A gas burner, sir.
I was busy arranging some paper in a cor
ner. and having both hands full, with a pen ner. and hassays in my mouth, I was for the
 show you, gas gives off a most noxious efflu the eyesight." 1 had emptied my hands and mouth, and was advancing upen hime. Fixing
his eyes upon mine, he started back in dis ${ }_{\text {"ressful }}^{\text {Hearyens }}$ h "how, you have
sight, gir, ur uld n
ei vable accident, anything should become on
of order in it, you will find the name ot the nanufacturer slamped on the inside B good enough to drop a line to their well known
house at Glasgow, and a man will instantly be
gent to atte d to it." ent to atter do it
I was beaten. This offer to send a man
from Scotlandinto the heart of Enyland, after
a a lapse of years, to put a gratuitonsly be
stow d three pence-halfpeny gas burner to sow d three pence-halipenny y
rights, was too much for me. I harner rights,
purchas
my deaf wife and abnt.
I had an aunt coming to visit me for the
irst time since my marriake, and I don't know what evil genius rarompted the wicked.
ness which I perpetrated toward my wife and ancient relation.
i. My dear.,
"My dear,", gaid I to my wife on the day before my aunt's arrival, you know Aun
Mary is coming to-m rrow; well, Iforgo to
tither mention a rather annoying circumstance with
regard to her. She is very deaf; and although regara
she can hear. $m y$ voice, yet you will be obliged
speak extremely loud in order to be heard. o speak extremely loud in order to 1 ke heard
It will be rather inconvenient, but $I$ know yo will do everything in your power to make her Mreeable. announce, her determ
Mrse herself heard, if if her power.
make her
I then went to fonn person 1 whow of of an an about as well a a any person I know of, and
old him to be at the house at p p. m. on the
ollowing evening, and felt comparatively hapy,
went to the railroad depot with a carriage nith my aunt, I said
wit My dear aunt, th

Before I could say a word or lift a finger to
stop him, he rapidy grided past me to the
thible which the lide table on which the lamp stod. Wiast mith a nim-
bieness which rooted me to the spot with apbleness which rooted me to the spot wite
prehensiun, he wh pped of the shade, then the old burner. In a moment the lamp was a
ruin. it is a mercy of Providence, sir, that I
"I happened to call."." "R Replace everything as
was, instantly.". "Res. "The number of caves of premature blind
ness," he calmy proceeded, "that I have had ness, he calmly proceeded, that have had
the gratifoction of preventing, makes my
labor a most pleasant one." Thinking he might be deaf, I bawled, "I
The mas. don't want your burner; I won't have it; take
it off," for he was lightly twirling the new one in its place.
"There, sir, you will feel thankful to me as
ong that troubles ong as you live ! the only thing that trouble
me in the matter is, I know I am ruining the "pectacle makers. " y y you hear!" "I asked. "I shall
you for it.". you for it." a very effective attitude.
He truck
"Payment! of what consequence is that "Payment! of what consequence is that
I could not remove that inestimable burne
for any amount of money, when the alterna for any amount of money, when the alterna
tive is the ruin of y y vir valuable eveeight
For, sir, your eyes are worth many burners. For, sir, your eyes are worth many burners.
make you a present nf it willingly. I am
and poor man, under heavy travelling expenses,
and have a family in want.", He sighed
"But duty hall be done. The price is thre
"Be "But duty hall be done. The price is thr
vence- halfenenny, or three sibiling a dozen.
lnow you will regret this momentary harat know you will regret this momentary harsh2
ness in the long years to come, when you are
nuj
 ing infirmity that Annie (my wife) has,
orgot to mention before. She is ver ing innirmity that Annie (my wife) has,
I forgot to mention before
and ghe is very
and
he ithough she can hear my voice, to and although she can hear my voioe, to
she is acoustomed, in its ordinary ton
you will be obli, ite. to speak extremely you will be obili,ecel to so speak extremely
order to be heard. I am sorry for it." Aunt Mary, in the goodness of her
protested that she rather liked speakin and to do so would afford her great ple
The carriage drove up - on the tepss wife- in the window was John $N$ N face as utterly solemu
$\mathrm{r} \in$ latives that afternoon.
"I am delighted to see you," shriel wife, and the epoliceman on the opposil
walk started, and my aunt nearly fel

$$
\begin{aligned}
& \text { the steps. } \\
& \text { " Kisss } \mathrm{m}
\end{aligned}
$$

" Kiss me, my dear," bawled my au he windows shook as with the fever an looked at the window John had
peared. Human nature coold tand
Onger. poked my head into the o onger. I poked my head into the
and went into strong convusions.
When I entered elping Aunt Mary to tate of her capes and there sat John with his fan
in his handkerchief
Suddenly .." Did you have a pleasa
 Thop, and the conversation continue
The The neighbors for blooks around $m$
heard it; when I was in the third stor building I heard overy word. In the course of the evening a "How lour your wife talks I"
I told her deaf prionsitalked
talk I told her deaf persons talked loud
that my wifif being used tome was not
by the exertion and that she whas gettil
ver nicert with her. yy the exertion and
very nineely with her. very nicely with her.
Presenty my wife said softly:
"Alf, how very loud your nunt tal
"A Ye, "Yes," "aid $I$, "all doan persons dien dee
getting along with her finely, the he
word you say." And I rather think word you say "And rather think
Elinted at their uuceess in being un
they went at it hammer and tonks, ti
 thing upon the mante.
nund 1 was eriousty afrai
ing in front of the house
ing in front of the house. My aunt
Bnt hat end was near.
nin inverianting turn of mind, was $d$
finding out whether the finding out whether the exertion
wast injurious to my wife. So-
 was not
young.
"It
"It is an exertion," shrieked my " "Then why do you do it?" was th "Because because-you can't
don't " squealed my wife. "What!" said aunt, fairly rivaliz
road whistle at the time. I began o think it time to evacuat
mises; and looking around and neer gone, 1 stepped into the baok parlor, angles, and his body rolling from B
with his fist poked into his ribs, agonized expression of countenane
uttering a sound.
I immediatel
 think from the relative position of on
hea a
ter, and our attempta to restrin ter, appoplexy must inevitably have
a horrible groan which John yave
his endeavor to suppress his risibilit his endeavor to suppress his risibilit
betrayed our hiding place. In came my wife and aunt, who
comprehended the joke and euch I got then I never got before, and I to get again.
If $\begin{aligned} & \text { I now now not what the end would } \\ & \text { in }\end{aligned}$ sympathetic. had not given yent
groan and ahores laugh that gult
upset and we screamed in concort. I know it was very wrong, and
tell such a falsehood but I think
, Opie herself would have laughe
geen Aunt Mar's eapression when
furmed that her hearing wan defect

ANS WERS TO NOVEMBER
276. $\begin{gathered}\text { Indus. } \\ \text { 279. }- \text { House, ouse, use. }\end{gathered}$ Obi. \&
$\begin{array}{rccc}280 .-\mathrm{C} & \mathrm{Z} & \mathrm{A} & \mathrm{R} \\ \mathrm{Z} & \mathrm{O} & \mathrm{N} & 1 \\ \mathrm{~A} & \mathrm{~N} & \mathrm{~N} & \end{array}$
$\begin{array}{rrr}\text { R } & \text { E } & \text { A } \\ \text { 281. } & \mathbf{S} & \mathbf{O} \\ \mathbf{0} & \mathbf{N} \\ \mathbf{A} & \mathbf{C} \\ \mathbf{A} & \mathbf{C} & \mathbf{R} \\ \mathbf{R} & \mathbf{E} & \mathbf{E}\end{array}$
28. - No answer has been sent
Let some of the smart ones get at
THE FARMEFR'S ADVOCATH
Dec. 1874
diver them a goon wru rosting

late ohiokens.
 beceme than helato oned Hene it hat








 list time An whensiring opens, and some of




mortality in

Ordinarly six or eight per cent, of adult
fowls will die of disease annually, when they
were thent diet to make them lay as much a stimulating passible.
hhis in not surprising when we reflect that our
domestic f wls the production of large numbers of egng if un un
natural, being a hatit induced by man, and
causes a great strain artificial sup ly of ood in unlimited allowance,
with no necessity for exercise fowls, in anocesity for sourercise on the part of the
wild state ever of disease. In the wild state every spociee of bird disease. In the the
a living and produce their food a for little at a
timun
 by the necessi y of feeding are thept frow laz laziness
having fixed he breeding time in thatur
seang fush season as regards foreage. Again the structur
of fowls is so chaned by ages of breeding, that
the wings and leged. and whole sets of the wings and leps. and whole sets of muscle
connected therewith are dwart d by diseace,
while other portions of the body are tively larye, which impares the are made re'a
by denal vigor
by destrying to some extent the natural bal hy destroying to some extent the natural bal.
lance f the organization For these and other
reason it is to be expected that the ord nary
 how, (in most cases)--rend drs it ot likely age an that
cortain portion will die annuall at an earlie
age. In conformity with this id an er are. In conformity with thily at an id earlie
which do not reach yll aze till tweene
hundred years to to on hundred years, do not drop off in the early
vears or mature to so great an extent as
hens. Ihe moral of the above is that novices in
poultry raising need not worry over their ill
luck or mistru luck. or mistro that their manavementir tis an
worse than that of their neithbors because
porchance. a 'ew of their fowls of two is four ears old die eviry summer. It common hatdy, and all the creed keptanct is un
unusually favorable. Reduce the death rat as much as possible by hyyenic meas rates
rather than by medicine. Give plenty of air
and sunshine feed and sunshine, feed moderatelve plenty of ain promot
exercise, and expect some losses in exercise, and expect some losses, in spite of al
prec utions.-Butfalo Lise Stock Journal.

In the affirmative I would reply, allow me
t, give a few facts to carry out that asser
tion: March 1st, 1874, I had seventy-five pure
bred hens and cocks, from which I yrave s,ld in fans ane one hundre thirth, have used in the
be-n worth 2 h cents, and have eggs which have
 lst has been $\$ 34$ so that any one can see the
nt result. Of co curse a creat anmunt of time,
care and attonti n have been bestowel in ob care and attenti in have been bestowed in ob,
taining so good a return and all this without
those nice grassy runs which so many fancur have; what vegetable food they have had has eenn given. demonstratin the fact that with
proper management, poultry d dee pay proper management, poultry dies pay. No
roup or choiera in my yards, yet I have lost
two hens from causes unknown, also an im.
at least hali offtheir park in grases







ported D. B. cock through paralysis; he lived
thirteen. days without walking, and I took
sympathy and ended his
 fall dispose of two of the four varieties which
I keep, believing that alloss number of kind
with the samg attention bestowed will be more satisfactory to the fancier, and produce a
lighter type of fowls. As to the varieties I
shall keep. it is a hard matter to decide Each shall keep. it is a hard matter to devide. Eachen
kind has so many redeeming features that one Hoort to part with any when he seess so many
gites and eno wys the beanties of the irds; however,
Bahma and the
varieties retained
 remai
Natio

## The 4 erse.

Unsafety on the or on Safery
ne or more of the following causes - bad action all cormation, sluggishness, or infirmity, of be so great that such an animil has got into To begin with action. diversity of opiritun as to what is pretty action and each maut may harmlessly in iululye has tast the
in this particular; but there yhuld be but opinion as to what is safe action. Many per
sons conceive, if a horse has high action, it ons conceive, if a horse has high action, it
denotes perfect safety. There can be no great
error; for high action has very little to do with safety, in fact, in many particulars it very
much contributes to its res ren
 clear all the imperceptible in equalities of a
road, and it is only of such we need have any
fearr; and so far as loose stones go if the fear, and so far as loose stones goe, if have any
large enough to want high action to get over,
the horse would ste in on

 with a shove (for we can find no better expres-
sion, he must be cunsafe, as the shock he
Wuid experienc, from any would experienc, from any opposiug substanee
would very likelv bring him down and this
would of course be just the same whether the would of ourse be just the same whether the
actio previoss to potting the foot down hat
been high or low. If he puts it fairly on the
cound, wh ther the foll cendi, whe ther the foot was placed on the as-
 A horse haas as much dit mad of fall falling as have that he should do sot therefore he ha we we
avoid or lift his legs over any large or visible
obstruction avoid or hift his legs over any large or visible
obstuction. however near he might go to the
ground in his general action, if he met such round in his general action, if he met such
obstacles as required lofty action to get over
tis only when his action is so yery to

 and putti.g the font proper:y on the ground
are two
ter. There is one thing that constitutes much
yreater dinger than any bad action us to guing
too near the ground. This is what we hing we near the ground. This is what we have
pecified as malformation of couse we allude

 aean by this, if his legs stand under him, al
the high action in the world connot save
uch $a$ horse if ridden mi take down he must come he is out of the
perpendicular, in fact overalanced. We kno
f many leaning towers han o herss; still they are some inc ining mor
tate of their present ion $b$ - increased perhaps one foot that declen me the whole fabric. So with the horse; he W. uclingo sanely enough so long as his presen
inclistained; but let him make a
false step, so as to to throw his fore-parts forwer d, wn hep, must as to the alsow his fore- Sarts forwar
duch horses mak
in strong horsess- at such work wand are generalli, for a harness
horse sh ,uld his hanunches, , orrses that are, saddle-horse be on
along in harness with heare get
weights behin thong in harness with heavy weights behind
them, particularly up hills. We will suppose
we could balance a horse, as we can sa stick the finger:-for a saddle-horse the balanc
should be such as always an inclination to tries fore-parts hav har harness-
horse, it should be the reverse, as a horse maz nave magnificient action in his trot without
being on his haunches. Heavy men the high ac ion and and with never ride horses with
 On them very ves ilkelv when it are, with a to a weight to hit their
legs Nothing can be more awful the horse with sing can be more awful than such
indeed cutting anywhere. cuttingby sbes dy, or

Slugyishness is another great cause of

 Derry ones. We often use them where theare
no no excitement for them. nothing to cheer them
but their own spirits; these should equal to proof, for thits; theyse should be at len get a good least deal
of diluting. Personal y we would of diluting. Personally we would a never wish
for a very steady one for any purpose wish for a very steady one for any purpose but a
shooting pony, and as we never shoot, we never
wanted is certainly. anything hot horse in hot weather
 cool one by a sluggish a brate. horse than in a
Of all men, heavy fellows require a cheerful seldom unsafe. If the Such horses are very are all alive and right in a momements mistake, they
if he does the same thing, we suptose
The slug. if he does the same thing, we esppose considers.
it, a dispensation of Providence that he it
to down, and that it would be sinful to resist t; so down he goes, carrying (on his knees) the
marks of his piety through life.
Est thens applied as well to horses as it doess to
things in general. We may like horses with sition than of the curry-powder in their compo
generality of persons do; w we think it to most hursees; and mon far dishes, so goes, we are quite clear the light-hearted horse
is lesss to be feared from its volatility than the being made to do that atisgnainet for the latter
which the other inclination out of temper; and then such a sentlem be pu be as alert as any of them, and is only so when
he means mischie nag that will stand at a door for half a da
without without being tied, stands like a post on bein mounted, and go something, like one ofter
wards, may be desirable acquisition. - Prairie
Farmer.
©he driayy.
freparing bers for winter.
By A. C. Attwood Apiary Editor
In view of the great mortality among bees
every winter, keeping them for winter quarters is one of the greatest importance.
It is difficult to give advice where bees, circumstances varies wo wore to winter
winter with good success in in cellons, sume winter with good success in cellars, but the ob-
jection to cellars, are, that they usually ar
too damp, but if yout will to damp, but if you, will wint $r$ in a cellar
keep the hive from the wall, and up from the
foor and in box hive stand them upside dentilation, if bench, and tack wire cloth over the mouth and
do not go often in with In winter we wish to retain the heat in every hive, and still allow the moisture to pass off
I advise to make as many hives outlof old woollen stuff; makelthem the full
size of the honey board, nad six size of the honey boarr, and six inches thick,
wft dry corn husks, cut straw or chaff, tak
off the lo ns' ead, right on the fr:mes have it fit tigh
so no put a little straw in your top cover, and crowd it down on top; no matter where bees are
 winter comes, and see in time that the groo
wife does not cut up all the woller. suff about
the place in carpet rags the way mi If you have any place to way mine does.
about frost proof, dark and dint in that i about frost proof, dark and dry, and quite as
soon an you see that winter has fairly ite in,
then remove your bees to that unless you have
a pl cce that is an a pl remove your bees to that unless you have
a pl ce that is nearly right, it is better to win
ter ter out of doors, in the old, styles of bee sheds
leave the tly hole open, and close up so mice
cannot set in theme cannot get in them, pack tight at the mice
side and top with pea straw say at foot
sil all around; leave the front of the a hives exposed
to the noon sun, and if the bees have plenty honey, and nothing particularly have plenty
will come out in the spring all right they will consume spring all right, of course
this, way, than is in a proper hoy wintered in this, way, than is in a proper repository; at least
they are better out as above than placed in a
wood-house, drive barn, or any such cold place.
italian bees in bad odor. We have a report of a meeting of the Ger
man agriculturists of Odor Bees, convey nfavorable account of Ittalian bees. beying an
Horr. of Mattenhtim, said he had beet bees sence 1857 , and, taking the kept ttalian
with them, he became possessed of most pains with them, he became possessed of many pains
colonenes and also some crosses in the first and
second deane econd degree. As a result of his experience There weenmed to to be traw for the foreign races.
The foul brood and the ot drewbacks: one ity to swarm. and the 'ther the strong propen-
Seavy colonies, and on thau broo the whad lost


## Granges Organized Since Las

 Master, Robert Green; OVerseer, JohMcElashan; Lecturer, JJb R. Moore, Med, W. . Lecturer, J Jb R. Moore; Jow- Stew-
ard, W. Mloan; Asst.-Steward, S. H. TanEvery; Chaplain, Dexter D. Overholt;
Treasurer, Edward Morris; Secretary, Pete Learn; Gatekeeper, James Moore; Ceres,
Mrs. Daniel Metler; Pomona, Mrs. Johy
McElashan. McElashan; Flora, Mrs. Robert Green,
Lady Ast..Steward, Mrs. S. H. VanEvery.
Exceutive Committes. W. Wemberton
Page, Daniel Metler W. P. Pa Page, Daniel Metler, W. W. SIoan.
Divizsion Grange Deputy.-Daniel Metler
North Pelham. North Pelham.
49. Pioneer $\overline{\text { Granae. - Wm. Keith, }}$
Master, Hammond P. O.; Jas. M. Mundell,
Secretary Hammond P. O.
50. Secretary, Hammond P. O.
50. WoodLAND GRAGE. - A. Webster
Master, Jackson P. Master, Jackson P. O.; Stephen Webster
Secretary, Jackson P.O.
5l. CoLINYILLE GRANGE.-John Nels. Master, OLssian P. O.; James Fiddes, Secre
tary, Ossian P. O 52. Trafalgar Grange.-Hiram A
berson, Master, Trafalgar P. O.; Jas.
Marlatt, 53. PERSEVERRANCE GRAGGE.-Wm. Bur
gess, sr., Master, Burgoyne P. O.; WM less, sr., Master, Burgoyne P. O.; Wur
Burgess, jr., Secretary, Burgoyne P. W.
54. HORNBY GRANGE. Christopher Preston, Master, Horgny - Christopher
Hall, Secretary, Hornby P. O. W. Wm. S.

field, Master, Port Colborge.- John Schol P. O.; D. J.
Stone, Secretary, Port Colborne P. O. tone, Secretary, Port Colborne P. O.
56. Bond HEAD GRAGE. John D.
Fraser, Master; Geo. Guilo raser, Master; Geo. Gaviler, Secretary.
57, Master, Grange. Hugh McLaugh ringtan, Secretary, Keyser P. O. John Har
58. 58. OSBoRNE GRANGE-James Duncan
Master, Osborne P. O. © Donald McLellan Secretary, osborne P. O.
59. Prospec GRANGE-Thos. Houston, Master, Pasisley P.
retary, Paisley P.

## datiscellameons.

##     especially in the summer time the the of food objection urged being that it is chililo The popular prejeducice against milk by the inhabitants of cities is due mor inhabitants of cities is due more to their arti ficial life and the adulteration of the milk they use than to any other cause use than to any other cause. Indeed, when whe we were young, milk fre. drawn from the cow and taken on an empty stomach was pre by physicians as a cure for dyspepsia. Srescribed from far from being injuri usi it it one of the most healthy articles of daily food that can be tost by the average man. There is no more <br> There is no more innocent food among the wonole category of alimente than pure milk. It cubtans bone, muscle, fat and brain producing sustes in contains bone, muscle, fat and brain producing substances, in an emininent derree, and just in the proper shape of assimination. It is true the that milk taken in inordinate quantities, or if the diet be suddenly changed to milk, the per- son will sometimes becume cons ipated, per- hans, or else the revere haps. or else the reverse. This is not due so m <br> the change in the diet, for various chankes in in the ordinary food would provuce the same ef. fect. It is true that there is now fect. It is true that there is now and then an individual who cannot take milk, but this would apply to almost any ther, article of food. There are here and there andice of with with whom some of the common articluale of food do not agree. These isplated facts invali date We stated the fact that milk used to be pre scribed for dyspepsia t. be taken before scribed for dyspepsia tut be taken before break fast. Still, as an article of dailv food we should not anvise this course. If taken in thi maniner it will destroy mothe may perhaps be one reason why it is govod to be taken in this wav buenk somachs. It is nutritious and easily dize ted it may prevent vorloading the stomach with more indigestible food. We should not advise it to be taken either betwe it to be taken either between or before meals, but as a part of the meal, preferably at its close. Milk is really becoming one of the grea reliances of the physicinin in various cases, es pecially in typhoid fever when the pecially in typhoid fever when the patient has beoome so Low as to be incapable of taking solid food. We are glad to see that the prac.

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## The low prices of tarmarkets.









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